

## Tingey, Christopher

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**From:** Bierschenk, Arnold  
**Sent:** Wednesday, February 14, 2018 2:43 PM  
**To:** Tingey, Christopher  
**Subject:** FW: CO2 Area Permit  
**Attachments:** WISR. July 2013.xlsx

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**From:** Erwin Pino [mailto:erwin.pino@chaparralenergy.com]  
**Sent:** Thursday, July 11, 2013 3:47 PM  
**To:** Bierschenk, Arnold <bierschenk.arnold@epa.gov>; Todd, Robert <Todd.Robert@epa.gov>  
**Cc:** Harvill, Jana <Harvill.Jana@epa.gov>  
**Subject:** FW: CO2 Area Permit

I forgot the attachment.

## Erwin Pino

Regulatory Engineer  
Chaparral Energy, L.L.C.  
701 Cedar Lake Blvd.  
Oklahoma City, Oklahoma 73114  
Direct Phone (405) 426-4081  
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**From:** Erwin Pino  
**Sent:** Thursday, July 11, 2013 3:46 PM  
**To:** 'Bierschenk, Arnold'  
**Subject:** RE: CO2 Area Permit

Arnold,

I added a column to the WSIR sent to you last week to show the current status of the NBU wells. See attached spreadsheet.

On the other hand, it would be better to send a written report for the 19 monitor wells (phase I) at once in that way you will have a better understanding of the changes in Chlorides, Alkalinity and TDS. It will probably take a couple weeks to get all done. Are you OK with that?

Thanks,

## Erwin Pino

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701 Cedar Lake Blvd.  
Oklahoma City, Oklahoma 73114  
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**From:** Bierschenk, Arnold [mailto:bierschenk.arnold@epa.gov]  
**Sent:** Thursday, July 11, 2013 1:51 PM  
**To:** Erwin Pino  
**Subject:** CO2 Area Permit

Erwin,

You did notify EPA about the analytical results as in # 1 below.

For #2, the written report in #2 can be submitted via e-mail as a pdf, just stating Chaparral's thoughts on the increase in alkalinity, and future activities (i.e., continued sampling and monitoring, trend analysis, etc). Include any possible explanations of the increase in alkalinity, compared to the relatively unchanged or lessened concentrations in chlorides and TDS, if it holds true in the remaining samples to come.

H.a.

- I.H.(a).1 The permittee shall orally report to the EPA, Region 6 within 24 hours of receiving analytical results exceeding a thirty percent (30%) increase above baseline values determined under Part I. G. 2.
2. Within five days of the oral report, provided in Part I. H. (a) 2., the permittee shall submit a written report to the EPA, Region 6 providing the status of their investigation into the increases and any subsequent corrective actions proposed or taken to protect USDWs.